

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number
WO 2005/030963 A1

(51) International Patent Classification⁷: C12N 15/62,
15/58, 5/10 // C07K 14/715

(21) International Application Number:
PCT/EP2004/052302

(22) International Filing Date:
24 September 2004 (24.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03103580.1 26 September 2003 (26.09.2003) EP
60/506,939 29 September 2003 (29.09.2003) US

(71) Applicant (for all designated States except US): Applied Research Systems ARS Holding N.V. [NL/NL]; Pietermaai 15, Curacao (AN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DUPRAZ, Philippe [CH/CH]; 25, chemin du Ferrage, CH-1023 Crissier (CH). KOBR, Michel [CH/CH]; 6A, route de Bremblens, CH-1026 Echandens (CH).

(74) Agent: Serono International S.A. Intellectual Property;
12, Chemin des Aulx, CH-1228 Plan-les-Ouates (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/030963 A1

(54) Title: LEADER SEQUENCES FOR USE IN PRODUCTION OF PROTEINS

(57) Abstract: This invention encompasses novel leader sequences for production of proteins. More specifically, the invention relates to DNA constructs encoding leader sequences comprising an immunoglobulin signal peptide fused to a tissue -type plasminogen activator propeptide, and to DNA constructs encoding leader sequences comprising a truncated human tissue -type plasminogen activator propeptide. The invention further relates to the use of these DNA constructs for producing proteins in mammalian cells.